

# Smart Labour Management System (Web Development)

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**Abstract - Our website named "EazyLabour" that uses the Smart Labour Management System is useful for both agricultural purposes and construction contractors. All tasks must be completed manually under the current system, which is costly and time-consuming. People can easily utilise our user-friendly website to hire various forms of labour in our proposed system and to have a better look at their data. The information will be kept in a safe database. The general public or an organisation can access their accounts directly through the website and alter information or requirements as needed. In our system, our clients can view labour details such as type, cost, location, availability etc. The smart labour management system also helps to reduce the time and effort in searching for labourers efficiently. The system also allows workers to find jobs corresponding to their category and improve their financial situation throughout the year.**

**Keywords —Labour Hiring, Management, Labour Contractors, Unemployed Labourers, Request Labour, Web Development**

## I. INTRODUCTION

Labour Management is an emerging area in most of the organizations. In the Construction work, it is almost necessary for every contractor to avail services of huge number of skilled labourers. However, due to compliance issues, safety and security issues, lack of means of communication, etc. The whole process of contract labor management becomes a complex subject. Even the farmers in the villages and towns are not able to communicate with good labourers whom they need almost on a daily basis due to which their progress is decelerating. Even the contract labourers do not have a continuity job and many of them remain unemployed despite of having great skill. Most of them even don't get wages on time and are given overtime charges and bonuses. So, to protect the social rights of labourers and to make skilled labour available to farmers and construction contractors at the drop of a

hat we are making a website with a user friendly interface.

## II. LITERATURE REVIEW

In recent years, various contract labour systems have been introduced. Labour Management System is one of the important systems in any enterprise. The software module is comprehensive and contains all relevant details of contracts, contractors and contract workers deployed by the contractor's employer for the project. In our project, common people can hire different types of labour and have a better check and control over the contractors and the contract workmen under them. Business surveys attempt to understand the working process of contractor management.

It has also been argued that the contract labor system provides employment opportunities for agricultural workers who would otherwise be unemployed in the industry, and these arguments made by employers support the continuation of the contract system are balanced out by the contract labour management system. Our website is structured into a number of sections, the first of which provides a thorough overview of system-related technologies and principles. The second portion is the system need. This section contains a detailed description of the hardware environment and the system implementation needs. The third portion is about to implement these functions, both foreground and background functions are included, if these needs are clear. The fourth component of the system design process is dedicated to detailed database design, which contains relationships between entities as well as the properties and relationships between the individual tables. Throughout this section, numerous classes are highlighted, with a focus on software implementation. Last but not least, system testing is a critical step in the creation of a labour management system. Numerous various types of test cases are scheduled in the test phase to confirm the system's accuracy.

### III.METHODOLOGY

#### A. *TOOLS / TECHNOLOGIES USED*

- HTML
- Tailwind CSS
- CSS
- JavaScript
- PHP
- MySQL

#### B. *WORKING*

Our system is used by people to hire different types of labourers depending upon their needs. Our interface has a login template where different construction contractors and farmers, etc can sign up to become our clients. Then they can choose an option called as browse labour request where can request for a specific number of labourers for a stipulated amount of time . From there onwards whenever a labour contractors views the request will contact them if he can fulfil their requirements. Due to this many farmers and construction contractors will be able to work efficiently and even the unemployment of labourers will reduce.

### IV.LOOP HOLES IN THE EXISTING SYSTEM

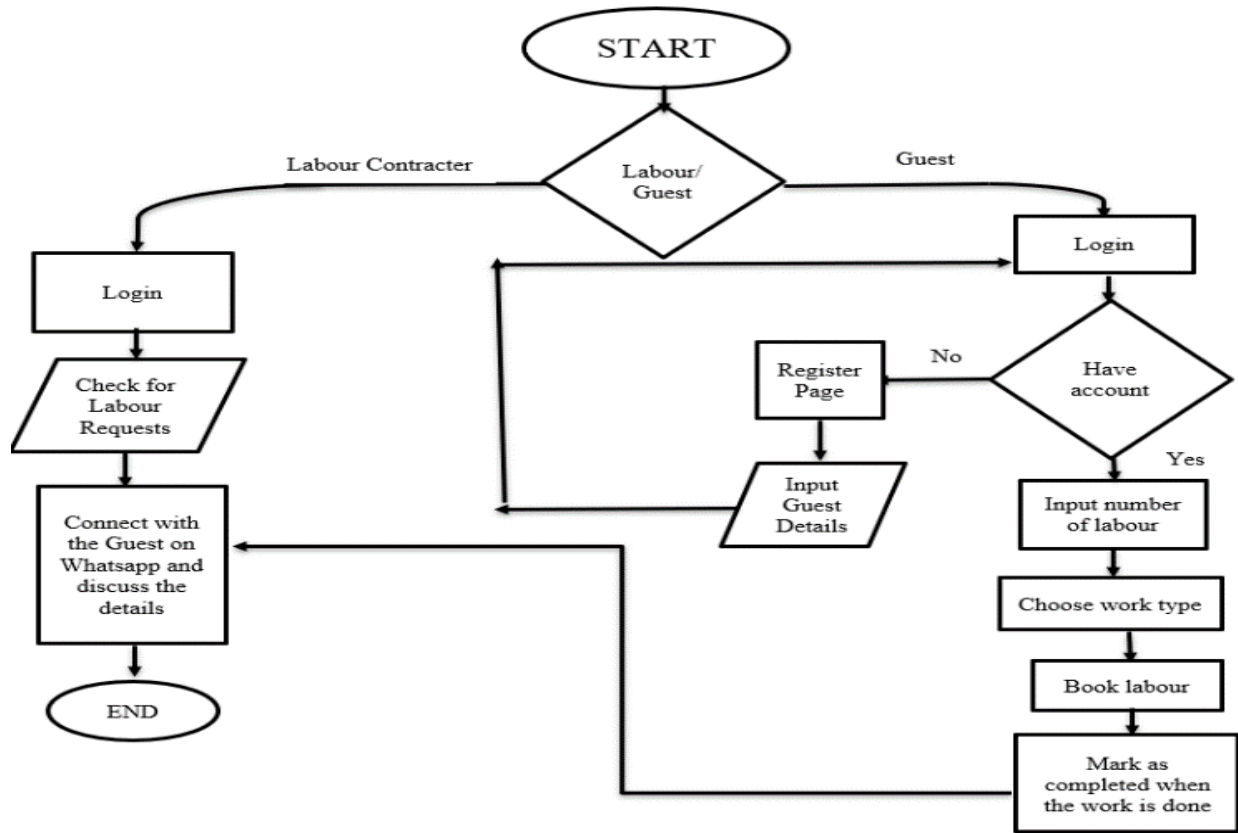
- Many Labourers remain unemployed in spite of having great skill
- Many Farmers and civil contractors who are in need of labourers do not find skilled labour easily and timely.
- Most of the labourers do not get their wages on times. Some don't even get their overtime charges and bonuses.
- Most of the labour contractors intervene in the contracts and inordinately take high commission leaving the labourers with less wages.
- There is not a good website or application having a user friendly interface for labour management. All of them are complex and difficult to operate.
- There is not a stable connection between labour contractors, farmers and construction contractors so there is poor communication between them.

### V.PROPOSED SYSTEM

The labour contractors will log in to our system through our website. Customers can see all the details of the particular labour through the website. Multiple registrations can be done in-website. The website offers some features like trust, safety and reliability. It helps labour to get the job on one click as well as all other people get the labour on one click.

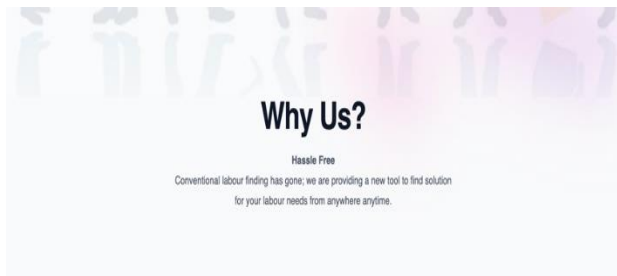
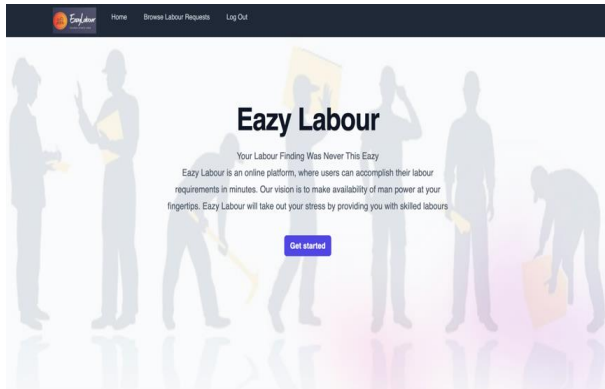
For implementing the labour management system, we need to follow some particular methodologies. Certain steps need to be performed for a successful process. Those steps are as follows:

- Homepage.
  - Labour/Guest Screen. -Login Page
  - Registration.
  - Request Labour
  - My Requests
  - Browse Labour requests
1. Home Page:
    - Here we have given a brief introduction of our website
  2. Login Page:
    - A page where a guest or labour contractor can log in to the app.
    - If he/she is already a user then he/she can request labour or browse labour requests.
  3. Registration:
    - If he/she is not a user then they have to create an account by entering their name, creating username and password , entering city-Pune, Solapur, pincode, and their role-labour contractor or labour requester.
  4. Request Labour:
    - Here a labour requester can request for a specific amount of labour and has to mention the type of labour he wants- for construction or farming.
  5. My Requests:
    - Here a labour requester can see the number of requests he/she has put with its details.
    - He/she can also mark the work as completed after his/her task is fulfilled.
  6. Browse Labour Requests:
    - Here labour contractors can see the requests which have come to them and connect with the labour requesters directly through whatsapp.

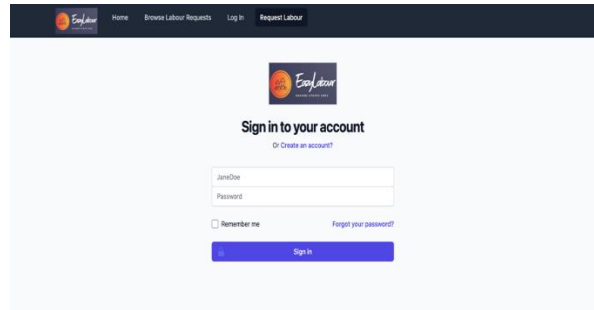


VI. RESULTS

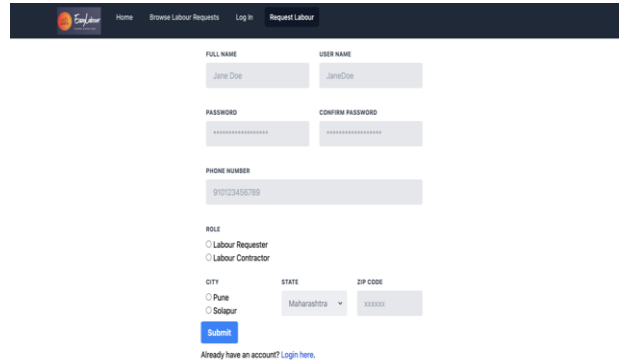
[1] Home Page



[2] Login Page:



[3] Registration Page:



[4] Request Labour:

[5] My Requests:

[6] Browse Labour Requests:

VIII.FUTURE SCOPE

- Expansion of our area to provide labourers- to different states
- Live Tracking of labours' location
- Trying to eliminate the mediator-labour contractor and directly connect to labourers.

IX.CONCLUSION

“EazyLabour” has made a user-friendly, attractive and easy to use interface for hiring skilled labourers online for construction and farming purposes and has also given the labour contractors an easy medium to connect to labour requester directly on whatsapp. With the help of our website we have reduced the time needed by people to search for raw labour. We have aimed at resolving issues like Communication Gap, Unavailability and Unreliability for the Consumers while at the same time-Increasing demand, Hours, Days and Value of employability for the Daily Wage Labourers.

VII. ACKNOWLEDGMENT

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